REMARKS

Amendment: This is the filing of an amendment under 37 CFR 1.111 responsive to the office action dated April 16, 5 2007.

Drawings: Replacement drawing figures 2 through 9 are submitted with the added label "Prior Art" and labeled in the margin as "replacement drawing" in accordance with 37 10 CFR 1.84(c). Examiner also requested a replacement figure 1, which is correctly labeled as prior art and requires no change. Reconsideration is requested.

15   *Claims:*

With regard to the objection of claims 2-25, 27-51, 53-76, 78-105, "where" is replaced by --wherein--. Claim 26 "whereby" is replaced by --wherein--.

20

With regard to the objection of claim 16 lines 2-3, "The Q channel" the claim is amended to reference the baseband symbols having an "in-phase component" and a "quadrature component", and the reference to "Q channel" is 25 changed to --quadrature component--. Reconsideration is requested.

With regard to the objection of claim 17, lines 2-3, "said training decision function window output" is a proper antecedent reference for the "training decision function

5 window output" recited in lines 5-6 of claim 1. Reconsideration is requested.

With regard to the objection of claim 52, "the said" is amended to --said--, "incoming symbols" is amended to

10 --incoming serial symbols--.

With regard to the objection of claim 52 lines 19-20 "said window start time to said window end time" applicant has amended these to --said window <u>signal</u> start time to said window <u>signal</u> end time--. Claim 52 lines 8-9 recite a

15 "window signal start time" and "end time", so "window signal start time" and "end time" are proper antecedent references. Reconsideration is requested.

With regard to the objection of claim 77, "memory" is

20 amended to --memory when said training decision output is false; and--

With regard to the 35 USC 112 rejection of claim 26, applicant has amended the paragraph starting on line 12 of

25 claim 26 to recite --a decision state whereby said ~~serial~~ ~~stream of baseband symbols~~ <u>correlation peak output</u> is

multiplied by the complex conjugate of the contents of said channel profile memory to produce a multiplier output;--. Applicant notes from figure 10 that during a decision state, the correlation peak output (signal 258) is coupled to the

5   multiplier 278.   Reconsideration is requested.

With regard to the 35 USC 112 rejection of dependent claims 27-51 and 103, applicant relies on allowable amended independent claim 26.

10

With regard to the 35 USC 112 rejection of claim 1, applicant has amended claim 1 to more clearly recite "a window output that is asserted at the start of an interval and unasserted at the end of said interval" so that later

15   antecedent use of "said window output is asserted" (penultimate line of claims 1) and "said window output is unasserted" (final line of claims 1) is proper.

With regard to the 35 USC 112 rejection of claim 77,

20   applicant has amended claim 77 to more clearly recite "a window output that is asserted during an interval, and unasserted at other times" so that later antecedent use of "said window output is asserted" (penultimate line of claims 1) and "said window output is unasserted" (final line of

25   claims 1) is proper.

With regard to the 35 USC 112 rejection of dependent claims 2-25, 59, 76-102 and 105, applicant relies on the allowability of amended independent claims 1 and 77.

5   With regard to the 35 USC 112 rejection of claim 19, applicant has amended this claim to distinguish in-phase and quadrature correlation peak outputs, which are stored respectively in in-phase storage and quadrature storage parts of memory, respectively.

10

With regard the to 35 USC 112 rejection of claim 26, applicant has removed "said adder" and replaced with the proper antecedent --said accumulator--.

15   With regard to the 35 USC 112 rejection of claims 27-51 and 103, applicant relies on the allowability of amended independent claim 26.

With regard to the amendment of "window output"
20   previously presented for independent claims 1 and 77 , applicant has amended related dependent claims reciting a "window output" to more clearly recite a window output that has an asserted or unasserted state as in amended claims 9-12 and 86-88, 93, 98, 100.

25

Applicant similarly clarifies the use of "quadrature" in dependent claims 7, 16, 19, 32, 33, 58, 59, 70, 83, and 95.

5   Applicant amends dependent claim 84 to properly rely on claim 77.

Applicant has also amended references to "Q Channel" in other claims to rely on the related dependant claim, as in

10   amended claim 41 (now relying on dependent claim 33), amended claim 67 (now relying on dependent claim 59), and amended claim 92 (now relying on dependent claim 84).

15

20

25

With this amendment, the claims of the present amendment are in condition for allowance. Please direct all correspondence to the Attorney of Record:

5   Jay Chesavage

           3833 Middlefield Rd.

           Palo Alto, Ca. 94303

           PTO Reg No 39,137

           PTO Customer Number 24346.

10

                              Respectfully Submitted,

                              Jay Chesavage

15   Registration No. 39,137